

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A multi-stack optical data storage medium for recording and reading using a focused radiation beam entering through an entrance face of the medium during recording and reading, comprising:

-----a first substrate with present having on a side thereof
-----a first recording stack named L₀ comprising a recordable type L₀ recording layer comprising a dye, and formed in a first L₀ guide groove, and a first reflective layer present

between the L_0 recording layer and the first substrate_{rec}:

.....a second substrate with presenthaving, on a side thereof.

..... a second recording stack named L₁ comprising a
recordable type L₁ recording layer, said second recording stack

being present at a position closer to the entrance face than the L₀ recording stack and formed in a second L₁ guide groove; and

-----a transparent spacer layer sandwiched between the first
and second recording stacks, said transparent spacer layer having a
thickness substantially larger than the depth of focus of the

focused radiation beam,
characterized in that the first L₀ guide groove has a depth G_{L0} <
100 nm.

2. (Currently Amended) ~~A-The~~ multi-stack optical data storage medium ~~according to as claimed in~~ claim 1, wherein $G_{L0} < 80$ nm and the first L_0 guide groove has a full half maximum width $W_{L0} < 350$ nm.

3. (Currently Amended) ~~A-The~~ multi-stack optical data storage medium ~~according to as claimed in~~ claim 1, wherein $25 \text{ nm} < G_{L0} < 40$ nm and the first reflective layer comprises a metal and has a thickness > 50 nm.

4. (Currently Amended) ~~A-The~~ multi-stack optical data storage medium ~~according to as claimed in~~ claim 1, wherein the recordable type L_0 recording layer ~~comprises a dye and~~ has a thickness between 70 nm and 150 nm measured on the land portion of the guide groove.

5. (Currently Amended) ~~A-The~~ multi-stack optical data storage medium ~~according to as claimed in~~ claim 1, wherein said multi-stack optical data storage medium further comprises a dielectric layer ~~is~~ present at a side of the L_0 recording layer opposite from the side

where the first reflective layer is present.

6. (Currently Amended) ~~A-The~~ multi-stack optical data storage medium ~~according to as claimed in~~ claim 5, wherein the dielectric layer has a thickness in the range of 5 nm - 120 nm.

7. (Currently Amended) ~~A-The multi-stack optical data storage medium according to as claimed in claim 1, wherein said multi-stack optical data storage medium further comprises~~ a second reflective layer comprising a metal ~~is present~~ at a side of the L₀ recording layer opposite from the side where the first reflective layer is present.

8. (Currently Amended) ~~A-The multi-stack optical data storage medium according to as claimed in claim 7, wherein the second reflective layer has a thickness in the range of 5 nm -15 nm.~~

9. (Currently Amended) ~~A-The multi-stack optical data storage medium according to as claimed in claim 7, wherein the second reflective layer mainly comprises a metal selected from the group of Ag, Au, Cu, Al.~~

10. (Currently Amended) ~~A-The multi-stack optical data storage medium according to as claimed in claim 1, wherein the effective reflection level of the stacks is at least 0.18 at a radiation beam wavelength of approximately 655 nm.~~

11. (Previously Presented) Use of an optical data storage medium as claimed in claim 1 for multi stack recording with a reflectivity level of the first recording stack L₀ as such of at least 0.5 and

modulation of recorded marks in the L₀ recording layer of at least
5 0.6 at a radiation beam wavelength of approximately 655 nm.